

天主教輔仁大學英國語文學系學士班畢業成果
ENGLISH DEPARTMENT, FU JEN CATHOLIC UNIVERSITY
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指導教授：陳碧珠

Bi-chu Chen

真善美聖

Pollution Caused by Daily Products



學生：蔡奇璋 撰

Matt Chi-Chang Tsai

Matt Tsai 402110647

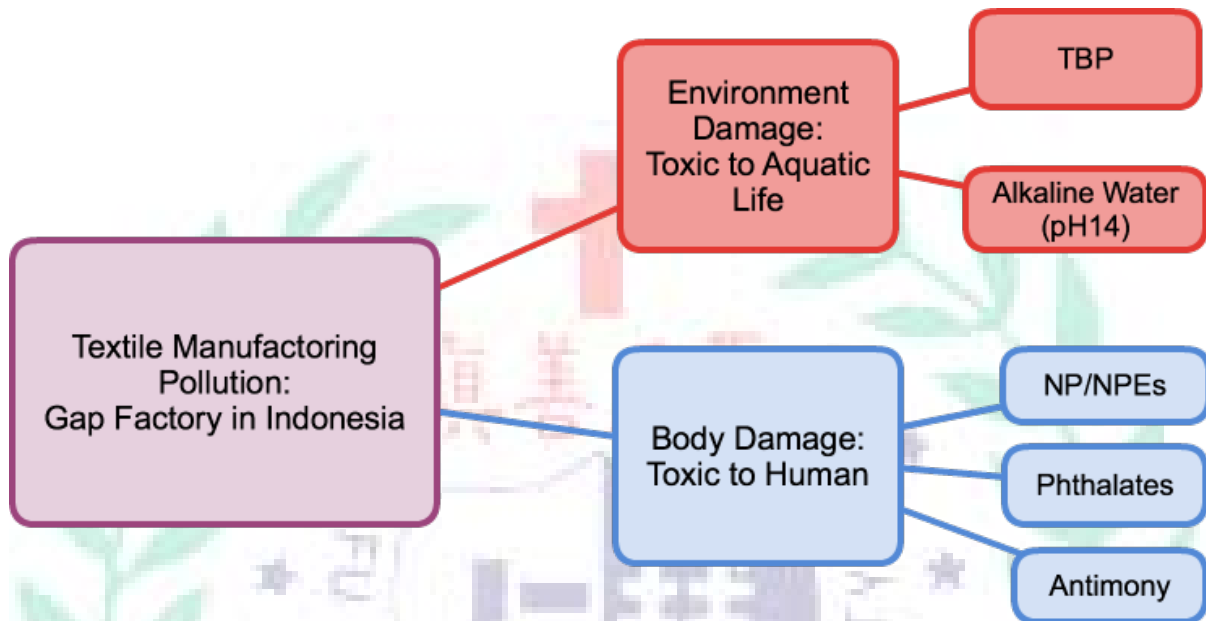
Technology-Assisted Instruction & Presentation – Ms. Chen

Junior



Pollution of Daily Products

Outline



Textile Manufacturing Pollution:
Gap Factory in Indonesia

Environment Damage:
Toxic to Aquatic Life

TBP

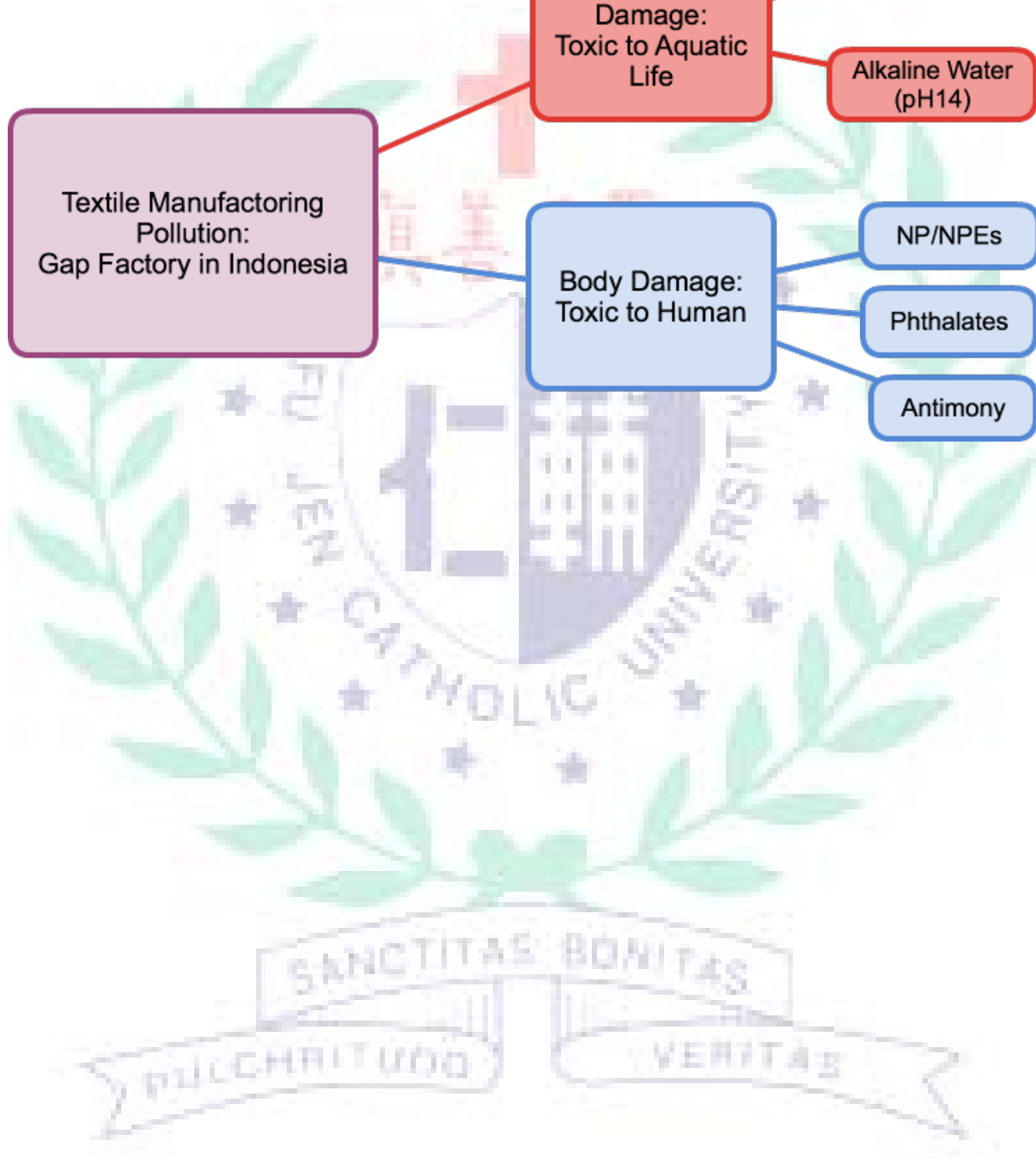
Alkaline Water (pH14)

Body Damage:
Toxic to Human

NP/NPEs

Phthalates

Antimony



Textile Manufacturing Pollution:

A case study of GAP factories in Indonesia

Our group project is about introducing the pollution caused by daily products like shampoo, cosmetics and clothes.

I am in charge of introducing the pollution of GAP factories, which produce clothes for people to wear. However, some of the processes of making clothes are not eco-friendly and some clothes are toxic to people. Here I take the situation in Indonesia as an example.

Pollution in Indonesia: the Citarum River



GAP factories discharge wastewater to the Citarum River in Indonesia.

Environment Damage

1. **Tributyl phosphate (TBP)** (磷酸三丁酯), a hazardous chemical used in the textile industry as a carrier for certain dyes and also as a plasticizer. It is moderately persistent in the waters. It is **toxic to aquatic life**.
2. **Alkaline Water (pH 14)**, the wastewater of the Citarum River is alkaline, and the pH value can even reach 14, which is very **caustic**. It will **burn human skin** directly, and it also has **fatal impact on aquatic life**. It is alkaline because it contains **p-terephthalic acid** (苯二甲酸), a raw material used in the manufacture of PET polyester.

The toxic elements contained in the wastewater causes environment damage.

Aquatic Life in the Citarum River



The Aquatic life died be cause of wastewater.

Body Damage

1. **Nonylphenol and Nonylphenol Ethoxylates (NP/NPEs)**, used as detergents and surfactants in textiles manufacturing. They are well-known because they are persistent contaminants and act as **hormone disrupters**.
2. **Phthalates**, used as plasticisers. They also has hormone-disrupting effects. For example, interfering the **development of reproductive organs of males** and affecting **reproductive success in females**.
3. **Antimony**, a toxic metalloid used in polyester manufacture, with effects including **dermatitis**, **irritation of the respiratory tract** and interference with the **immune system**.

Some clothes they produce contain toxic chemicals which may cause damage to people.

The Monsters in Your GAP T-Shirt

NP/NPEs (壬基酚/壬基酚聚氧乙烯醚)
Nonylphenol and Nonylphenol ethoxylates (NP/NPEs), used as detergents and surfactants in textiles manufacturing. They are well-known because they are persistent contaminants and act as hormone disrupters.

Phthalates (酞酸鹽)
Phthalates, used as plasticisers. They also has hormone-disrupting effects. For example, interfering the development of reproductive organs of males and affecting reproductive success in females.

Antimony (銻)
a toxic metalloid used in polyester manufacture, with effects including dermatitis, irritation of the respiratory tract and interference with the immune system.

The infographic features a central image of a man wearing a dark blue GAP hoodie. Three callout lines point from the hoodie to text boxes describing the chemicals. To the left, a smaller image shows a man's torso with a callout to NP/NPEs. To the right, a diagram of the male reproductive system is linked to Phthalates. At the bottom left, a diagram of the human respiratory tract is linked to Antimony.

I use Easelly to introduce and explain the damage and disease caused by GAP clothes.

Semester Reflection Chart

| Week No. | Reflections |
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| 1 | I missed this week because I participated in another course. |
| 2 | <p>This week I learnt how to do a briefer PowerPoints by deleting the less important information and keep the most important key word. I think this process is more difficult and taking more time. Usually when we are doing a PowerPoints we put everything we would like to talk about on the ppt and put lots of pictures. however, it would be too complicated and audience can't learn much information in a short time. therefore, a consiced ppt can make the screen clearer and people can easily know what we are going to talk about. I think this skill is very important and helpful.</p> |
| 3 | <p>I think this week I learnt something really different from PowerPoint. The new technical tool I got this week is called Easel.ly, which is to produce an only-one-page poster for presentation. In my opinion, using this tool needs more time than using PowerPoint because this poster is only one page, and you have to put everything you want to talk about on this poster, which means you have to use words more precisely and carefully choose keywords. Nevertheless, it is very useful and beautiful.</p> |
| 4 | <p>This week we used the open courses resources to build the basement of our later presentation. Though we did some practices in this week, I am still very confused about how to operate the website called “FJU OCW” which is very terribly unfriendly for me. I think maybe it is because I’m too stupid, but I really</p> |

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| | <p>had hard time with using this website. Probably I should learn more about it next week.</p> |
| 5 | <p>In this week we learnt more about Learning Management System(LMS), which is really different from the traditional teaching system. By using LMS, we can easily get extended sources and learn things more convenient. On the other hand, with the help of LMS, we can easily have online discussion with classmates and we don't have to go outside and make an appointment to gather group members. Teachers use LMS can send students the helpful information directly. once we get to know how to use LMS, and it will become a helpful tool while we are learning.</p> |
| 6 | <p>In this week we took a further step of exploring the Moodle system. We also did some practice of comparing the difference between Moodle and iCan. For me, I think iCan may be much easier for me to use. Not only because it has much clearer UI but also because it is well divided into several functions so we can spend less time figuring out how to operate it. On the other hand, I think moodle may have more educational functions such as online surveys and tests; however, the functions on Moodle are not well divided so it is really hard for us to operate it and the system is time consuming. After finishing this course, though I have a better knowledge about Moodle, I may still want to choose iCan system for educational needs.</p> |
| 7 | <p>This week we learned some basic functions about Xmind, which is one of the practical mind map applications. I think mind map is quite easy to write yet how to develop the thoughts is kind of challenging. First I have to simplifiy my</p> |

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| | <p>thoughts and turn them into simple key words or key phrases. It depends on if you can build up and organize your ideas well. Another difficult part is that I have to use my creativity to make things related. Also, different colors and pictures are needed to be used well. However, if we learn the skill of developing thoughts and organizing them, we can easily make a good mind map. Xmind is a very easy tool to produce mind map.</p> |
| 8 | <p>This week teacher introduced the development of www. We learnt the history of web 1.0 to web 3.0. it was quite interesting. It also gave me a chance to review that how fast was the Internet changing. It becomes more and more convenient, and there are more and more functions being developed. Later we went to the lab and had presentations. the first group introduced the million singer software, which was very funny and interesting. It was a very useful tool if we needed to socialize or hang out with friends. Another presentation was about music editing. For me the functions were quite complicated and I didn't like the UI. Furthermore, I thought the music I edited was quite terrible because it sounded awful after I edited it.</p> |
| 9 | <p>This week we had to present our introduction of the app "Edmodo," which I thought we had done a pretty good introduction to it. Before we did the presentation, we had to prepare for it and do job distribution. Because Edmodo doesn't have too many complex functions, so we encountered a problem that how to give each one the fair time to present his own ideas. Later on, we decided to introduce it by being a tour guide. We actually gave the audience a chance to know the operation of Edmodo by using all the functions actually.</p> |

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| | <p>Plus, I thought I had done a pretty nice job while introducing. I used a humorous way to do my presentation, which made everyone laugh. I thought I had successfully drew their attention.</p> |
| 10 | <p>Though this week we didn't have class, we had to hand in online meeting discussion notes. During the process I thought it was quite funny because this was the first time we met each other by using camera video call. The problem we encountered this time was the unstable Internet connection. So sometimes we lost the signal, which also could make the record not really clear. But I thought it was a good chance for me to practice online discussion.</p> |
| 11 | <p>The week we listened to other classmate's presentation. Furthermore, this was also the first time we learnt how to use Cacao. The game-producing presentation kind of impressed me. Because it was really fresh to me, and it was funny. I thought we could really make use of it in the future if we want to leave a strong impression to the audience. However, the presenting group seemed encountering some technic problems so we didn't have the chance to practice it, what a shame. And I was a bit confused about the homework and how to use Cacao, I hoped I can lean more about it in the future.</p> |
| 12 | <p>This week we learnt more functions of Cacao, and I also knew how convenient Cacao is. It can be edited online by a group of people, which is really helpful for teamwork. And I also started to do my personal project of Evercam. I thought it was quite a challenging work, because I was assigned to do garment pollution, which was related to some professional chemistry knowledge. this was beyond my filed, but I would try my best to do a good Evercam presentation.</p> |

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| 13 | <p>This week we learn more about the copyright, and how to prevent ourselves from violating intelligence right. CC is quite useful and very convenient.</p> <p>However, it takes time to learn and remember what all the marks mean.</p> <p>Nevertheless, I think after remember all of them, it will be very easy for us to mark the copyright and CC also helps us to recognize other people's works and copyrights.</p> |
| 14 | <p>This week we talked about the UI (user interface), which I thought it was really cool. From the laptops to smartphones, we have had a lot of different user interfaces. But we seldom think about how they were designed for the users' convenience. For example, the screen of a smartphone has the totally different user interface compared to computer system, like swipe right or left hand gestures. In order to provide the best using experiences. the designers have to put a lot of efforts in the products. I think we should not take them for granted and should have a real thought about it.</p> |
| 15 | <p>we learn about the software QDA miner system. I think it is a bit difficult for us because the functions are complicated. However, it is a really useful data analysis software. It can even analyze a picture. It can also extract and explore information from the collections, and it is very useful for us to do data research.</p> |
| 16 | <p>I think that the exercise group introduced the healthy way to manage the life, which was really good. I also learned something new about exercised. For example, before their presentation, I didn't know that before stretch people should warm up. Usually I did stretch first and then warming up. So I did learn a new lesson. My question about the presentation is that how much exercise do we</p> |

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| | need a day or week to keep us more healthier? |
| 17 | <p>I enjoyed the Guo-Tai teaching projected, because I also had a small projected in Guo-Tai before. And it was my very first time. The kids were really naughty and since I was a novice, I didn't know to control their bad behaviors. So during the first class it was totally a mess. So this group really helped me a lot. I learned some useful teaching skills from them. for example, how to get kids' attention and how to made them focus on study. My question for them is that how do they deal with those kids who have lower motivation about studying?</p> |
| 18 | <p>I think in this course I really learn a lot of useful tools and software. For example, CaCoo can help us organize a good mind map with teamwork. Easel.ly can help us to explain our ideas clearly with the help od graphics. What is more important, I learned how to make a clear and specific PowerPoint. and during the whole semester, i didn't feel a lot of stress. Thank you, Bichui, for teaching us without too much pressure.</p> |

Reference List

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A Little Story About the Monsters In Your Closet / Greenpeace East Asia. N.p., 14 Jan. 2014. Web. 15 Jan. 2016.

